

MATERIAL SAFETY DATA SHEET

SECTION I

TRADE NAME

CHEMTREAT CL-1446

CHEMICAL NAME AND SYNONYMS

Organic and Inorganic Scale and Corrosion Inhibitors

EMERGENCY TELEPHONE NO.

(800) 424-9300

ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS

SECTION II	HAZARD	ous	INGRE	DIENTS	
PRINCIPAL HAZARDOUS COMPONENT(S)	CAS NO.	% .	ORAL LD ₅₀	DERMAL LD 50	TLV (Units)
Potassium hydroxide	1310-58-3	<5	365 mg/kg (Rats)	>2 g/kg (Rabbits)	2 mg/m ³ ACGIH/OSHA Ceiling
Tolyltriazole, sodium salt	64665-57-2	>1	640 mg/kg (Female Rats)	>2 g/kg (Rabbits)	NE
2-Butenedioic Acid (Z)-,homopolymer	26099-09-2	>1	15.0 g/kg (Rats)	NIF	NE
Sodium molybdate	7631-95-0	<2	4233 mg/kg (Rats)	NIF	5 mg/m³ OSHA/ACGIH
2-phosphono-1,2,4-butanetricarboxylic acid aqueous solution	37971-36-1	>1	>6 g/kg (Rats)	NIF	NE

SECT	ON III	PHYSICAL DATA	
BOILING POINT (*F)	≥212	SPECIFIC GRAVITY (H_O = 1) at 20°C	~1.13
VAPOR PRESSURE (mm Hg.) at 20°C	NE	PERCENT VOLATILE BY WEIGHT(%)	78
VAPOR DENSITY (AIR=1)	NE	EVAPORATION RATE (NE
SOLUBILITY IN WATER	Complete	pH at 20°C	13.1
APPEARANCE AND ODOR Clear, as	mber liquid, str	ong aldehyde odor.	\$1.00 ca

LASH POINT (Method Used)	Not flammable	FLAMMABLE LIMITS % by Vol.	Tel V	IAP Uel NAP
EXTINGUISHING MEDIA	Not Flammable. Use	extinguishing media appropriate to the	surrounding fire	9.
SPECIAL FIRE FIGHTING PROCEDURE	S If product is i	nvolved in a fire, firefighters should w	ear full protective	ve clothing including
NIOSH app	proved self-contained	breathing apparatus.		
UNUSUAL FIRE AND EXPLOSION HAZA	RDS Kee	p containers cool with water	r spray to m	inimize the

HEALTH HAZARD DATA SECTION V

THRESHOLD LIMIT VALUE

OSHATLV

ACGIH TLV NE

NE

EFFECTS OF OVEREXPOSURE

Corrosive to all tissues, eyes, skin and mucous membranes. Mists and vapors can be severely irritating to the respiratory tract. Harmful if swallowed.

HEALTH EFFECTS

No applicable information was found on the long term health effects of this product.

PRIMARY ROUTE OF ENTRY

Eyes Skin

Ingestion

EMERGENCY FIRST AID PROCEDURE

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of entire eye surface. Seek medical attention. SKIN: In case of contact immediately wash with plenty of water while removing contaminated clothing. Seek medical advice. Wash and decontaminate clothing before reuse. ORAL: Call a physician - drink large quantities of milk, egg whites, gelatin, or water-never administer anything by mouth to an unconscious person. INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician.

		SE	CTION VI	REACTIVITY	DATA	
STABILITY	STABLE	٦ -	CONDITIONS	7 .	*	
	UNSTABLE TO AVOID	TO AVOID	None Known			
INCOMPATA (Materials to				Oxidizers and excess	sive heat.	ği X
HAZARDOU PRODUCTS	S DECOMPOS	ITION		Oxides of carbon and c	of nitrogen.	
HAZARDOL	IS POLYMERIZ		CONDITIONS			**************************************
MAY OCCU	R NO	V	TO AVOID	None Known		23

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Wearing appropriate protection equipment (see Section VIII), contain spill. Using an inert chemical absorbent, collect spilled material and place in a properly labeled container for disposal or reuse. Report spills as required to appropriate authorities.

WASTE DISPOSAL METHOD

This material may be considered hazardous according to 40 CFR 261.22. Dispose of as unlisted hazardous waste, characteristic of corrosivity, D002. Observe all federal, state, and local regulations when disposing of this product.

RESPIRATORY PROTECTION If misting occurs, use NIOSH-MSHA organic vapor/acid gas dual cartridge respirator (Specify Type) with dust/mist prefilter. EYE PROTECTION Chemical splash goggles VENTILATION Local exhaust SPECIAL PROTECTION INFORMATION INFORMATION SKIN PROTECTION Rubber gloves, apron, and boots OTHER PROTECTION Eye wash fountain and safety shower.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN

IN HANDLING AND STORING

Wash thoroughly after handling. Remove and wash contaminated clothing promptly. Do not ingest. Do not get on skin, eyes, or clothing.

OTHER PRECAUTIONS

Keep away from heat and oxidizers. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. Store at ambient temperatures.

SECTION X MISCELLANEOUS DATA

NIF - No Information Found

NA - Not Available

NE - Not Established

D.O.T. Class: Potassium hydroxide solution

Hazard Class UN 1814 PG II Corrosive Label

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, CHEMTREAT, INC. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will CHEMTREAT, INC. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATION OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

Timothy H. Reid / Director of Regulatory Affairs

CL-1446

Revised Edition 2/27/97

PREPARED BY

DATE

Page 3 of 4



MATERIAL SAFETY DATA SHEET

	HAZARDOUS INGREDIENTS						
REGULATORY COMPLIANCE	1	2	3	4	5	6	7
CWA/ 304 Water Quality Criteria	No	No	No	No	No		
CWA/307 Priority Pollutants	No	No	No	No	No	6 <u>5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</u>	<u> </u>
CWA/311 Hazardous Chemicals	YES	No	No	No '	No		
CAA/111 VOC	No	No:	No	No	No		
CAA 1990 Amendments	No	No	No	No	No		ļ
RCRA Land Disposal Restrictions	No	No	No	No	No		
CERCLA Hazardous Substances	YES (1)	No	No	No	· No		
SARA/302 Extremely Hazardous Substances	No	No	No	No	No		
SARA/313 Toxic Chemicals	No	No	No	No	No		
NTP/IARC/OSHA/ACGIH Carcinogen	No	No	No	No	No		
California Proposition 65	No	No	No	No	No		
MA/PA/NJ Hazardous	MANJ	No	No	No	No		

- Acute	*	Yes	□ No
- Chronic		☐ Yes	n No
- Fire		☐ Yes	■ No
- Sudden Releas	se of Pressure	☐ Yes	■ No
- Reactive	٠	☐ Yes	M No

			4,43,5	
		NFPA RATIN	ig HMIS	RATING
	Health	3 ,		3
	Flammability	0		0
STEEL ST. C.	Reactivity			1
	33			7